

Abstract of the Disclosure

A PROCESS FOR PRODUCING CRYSTALLINE GRAPHITE NANOFIBERS

5 A process for producing substantially crystalline graphitic carbon nanofibers comprised of graphite sheets. The graphite sheets are substantially parallel to the longitudinal axis of the carbon nanofiber. These carbon nanofibers
10 are produced by contacting a bulk iron, or an iron:copper bimetallic, or an iron:nickel bimetallic catalyst with a mixture of carbon monoxide and hydrogen at temperatures from about 625°C to about 725°C for an effective amount of time.